

IN THE ABSTRACT:

The following paragraph will replace all prior versions of itself in the abstract of the application.

A manufacturing method of a thin component is characterized by heating a thin component (1), and thereafter, while sizing with molds (12a, 12b) and using molds (12a, 12b) as cooling media, performing one of quenching and isothermal transformation processes on thin component (1). Thus, a manufacturing method of a thin component without warping or deformation in heat treatment with even and high hardness, a bearing ring, a thrust needle roller bearing, a manufacturing method of a rolling bearing ring, a rolling bearing ring, and a rolling bearing can be obtained.